

Cross-sectional study using primary care and cancer registration data to investigate cancer patients presenting with non-specific symptoms.

Supplementary Information

Table S1: Site groupings: ICD10 (International Classification of Disease version 10) codes

Site name	ICD10 codes (3 digit)
Brain & Central Nervous System (CNS)	C69-C72; C47
Breast	C50
Colorectal	C17-C21; C26
Gynaecology	C51-C58
Haematology	C81-C85; C88; C90-C93; C95-C96
Head & Neck	C00-C14; C30-C32; C73
Lung	C33-C34; C37-C38; C45
Sarcoma	C40-C41; C46; C48-C49
Skin	C43
Upper Gastrointestinal (GI)	C15-C16; C22-C25
Urology	C60-C68
Other	C74-C80

Table S2: Regression analysis results – associations (Odds Ratios – OR) with having a long primary care interval

	All		NSCS		Non-NSCS	
	Unadjusted OR (95%CI)	Adjusted OR (95%CI)	Unadjusted OR (95%CI)	Adjusted OR (95%CI)	Unadjusted OR (95%CI)	Adjusted OR (95%CI)
NSCS						
NSCS	1.59 (1.46-1.73)	1.24 (1.12-1.36)				
Non-NSCS	Reference	Reference				
Age group						
0-24	1.34 (0.97-1.86)	0.95 (0.67-1.34)	1.91 (0.91-4.00)	1.56 (0.71-3.44)	1.23 (0.86-1.78)	0.79 (0.53-1.17)
25-44	0.78 (0.67-0.92)	1.08 (0.90-1.29)	1.22 (0.81-1.85)	1.37 (0.88-2.12)	0.76 (0.64-0.91)	1.02 (0.84-1.25)
45-59	0.88 (0.78-0.98)	1.08 (0.95-1.21)	1.06 (0.83-1.37)	1.15 (0.89-1.50)	0.85 (0.75-0.97)	1.05 (0.92-1.21)
60-69	Reference	Reference	Reference	Reference	Reference	Reference
70-79	1.04 (0.94-1.14)	0.98 (0.88-1.09)	0.96 (0.78-1.18)	0.94 (0.76-1.16)	1.05 (0.94-1.17)	0.98 (0.87-1.11)
80+	1.10 (0.99-1.21)	0.97 (0.87-1.08)	0.93 (0.76-1.15)	0.86 (0.69-1.07)	1.12 (0.99-1.26)	1.01 (0.88-1.15)
Sex						
Male	Reference	Reference	Reference	Reference	Reference	Reference
Female	0.79 (0.74-0.85)	1.09 (1.00-1.19)	1.05 (0.90-1.22)	1.12 (0.95-1.32)	0.72 (0.67-0.78)	1.08 (0.98-1.20)
Deprivation						
1 - least deprived	Reference	Reference	Reference	Reference	Reference	Reference
2	1.12 (1.01-1.25)	1.12 (1.00-1.25)	1.04 (0.82-1.31)	1.04 (0.82-1.32)	1.14 (1.01-1.28)	1.14 (1.00-1.30)
3	1.09 (0.98-1.21)	1.05 (0.94-1.17)	1.07 (0.85-1.35)	1.05 (0.82-1.32)	1.08 (0.96-1.22)	1.04 (0.92-1.18)
4	1.18 (1.06-1.32)	1.10 (0.98-1.23)	1.18 (0.93-1.49)	1.15 (0.90-1.46)	1.16 (1.02-1.31)	1.08 (0.94-1.23)
5 - most deprived	1.19 (1.06-1.34)	1.08 (0.96-1.23)	1.18 (0.92-1.51)	1.13 (0.88-1.45)	1.17 (1.03-1.34)	1.06 (0.92-1.22)
Comorbidities						
0	Reference	Reference	Reference	Reference	Reference	Reference
1	1.20 (1.10-1.32)	1.13 (1.02-1.25)	1.27 (1.03-1.55)	1.38 (1.11-1.72)	1.17 (1.05-1.30)	1.06 (0.94-1.19)
2	1.21 (1.09-1.33)	1.11 (0.99-1.25)	1.18 (0.95-1.46)	1.30 (1.03-1.65)	1.19 (1.06-1.33)	1.06 (0.93-1.21)
3+	1.46 (1.31-1.61)	1.26 (1.11-1.42)	1.29 (1.04-1.61)	1.44 (1.12-1.84)	1.48 (1.32-1.66)	1.20 (1.04-1.38)
Route to diagnosis						
Emergency presentation	3.06 (2.78-3.37)	2.08 (1.87-2.32)	1.76 (1.46-2.13)	1.66 (1.36-2.03)	3.40 (3.03-3.82)	2.23 (1.95-2.54)
GP referral	1.78 (1.63-1.95)	1.44 (1.31-1.58)	1.32 (1.07-1.62)	1.28 (1.04-1.58)	1.84 (1.66-2.04)	1.48 (1.33-1.64)

Inpatient	2.65 (2.03-3.45)	2.04 (1.55-2.67)	1.26 (0.74-2.13)	1.18 (0.69-2.03)	3.15 (2.31-4.28)	2.40 (1.75-3.30)
Outpatient	3.40 (2.95-3.91)	2.47 (2.13-2.86)	1.88 (1.40-2.52)	1.71 (1.26-2.31)	3.82 (3.25-4.48)	2.73 (2.31-3.23)
Two Week Wait	Reference	Reference	Reference	Reference	Reference	Reference
Unknown	2.90 (2.32-3.62)	2.69 (2.13-3.39)	1.99 (1.20-3.31)	1.85 (1.10-3.12)	3.08 (2.41-3.95)	2.91 (2.24-3.76)
Stage						
1	Reference	Reference	Reference	Reference	Reference	Reference
2	0.88 (0.78-0.99)	0.93 (0.81-1.05)	0.89 (0.65-1.22)	0.94 (0.68-1.30)	0.83 (0.73-0.95)	0.93 (0.81-1.07)
3	1.20 (1.07-1.36)	0.96 (0.85-1.09)	0.97 (0.72-1.30)	1.04 (0.76-1.41)	1.17 (1.03-1.34)	0.94 (0.81-1.09)
4	1.76 (1.58-1.95)	1.06 (0.94-1.20)	1.21 (0.93-1.58)	1.14 (0.86-1.51)	1.76 (1.56-1.98)	1.03 (0.90-1.18)
Unknown/other	1.81 (1.63-2.02)	1.08 (0.95-1.23)	1.31 (1.00-1.72)	1.22 (0.90-1.64)	1.79 (1.59-2.01)	1.04 (0.90-1.20)
Site						
Brain & CNS [§]	2.86 (2.12-3.84)	2.27 (1.65-3.12)	17.42 (2.29-132.50)	12.57 (1.61-97.95)	3.11 (2.26-4.27)	2.19 (1.55-3.08)
Breast	0.33 (0.28-0.39)	0.47 (0.39-0.56)	1.66 (0.63-4.40)	1.58 (0.58-4.31)	0.38 (0.32-0.46)	0.48 (0.39-0.60)
Colorectal	Reference	Reference	Reference	Reference	Reference	Reference
Gynaecology	0.75 (0.63-0.89)	0.81 (0.67-0.98)	0.88 (0.63-1.22)	0.84 (0.59-1.20)	0.81 (0.65-1.01)	0.82 (0.65-1.04)
Haematology	1.46 (1.25-1.70)	1.38 (1.17-1.62)	1.39 (1.08-1.79)	1.24 (0.94-1.63)	1.64 (1.35-2.01)	1.49 (1.20-1.83)
Head & neck	0.95 (0.78-1.16)	1.10 (0.89-1.35)	1.63 (0.51-5.17)	1.38 (0.43-4.44)	1.12 (0.89-1.40)	1.15 (0.91-1.46)
Lung	1.89 (1.65-2.16)	1.82 (1.58-2.11)	1.66 (1.31-2.11)	1.55 (1.21-1.99)	2.22 (1.86-2.65)	1.98 (1.64-2.38)
Other	1.59 (1.26-2.00)	1.26 (0.98-1.62)	1.24 (0.87-1.77)	0.97 (0.65-1.44)	1.99 (1.46-2.71)	1.57 (1.13-2.20)
Sarcoma	1.52 (1.08-2.12)	1.61 (1.13-2.28)	1.16 (0.55-2.47)	1.08 (0.50-2.33)	1.85 (1.26-2.71)	1.85 (1.24-2.76)
Skin	0.42 (0.35-0.52)	0.57 (0.46-0.71)	1.16 (0.07-18.63)	1.33 (0.08-21.86)	0.50 (0.40-0.63)	0.60 (0.47-0.75)
Upper GI [®]	1.13 (0.98-1.31)	1.05 (0.90-1.23)	1.15 (0.92-1.43)	1.04 (0.83-1.31)	1.17 (0.96-1.43)	1.08 (0.87-1.33)
Urology	1.02 (0.90-1.16)	1.26 (1.10-1.45)	1.26 (0.96-1.65)	1.39 (1.04-1.85)	1.16 (0.98-1.37)	1.29 (1.08-1.53)

* Adjusted model – adjusted for NSCS (in overall cohort only), age, sex, deprivation, comorbidities, route, stage, site

[§] - Central Nervous System

[®] - Upper Gastrointestinal